



UNIVERSITY OF MICHIGAN  
COLLEGE OF ENGINEERING  
THE RADIATION LABORATORY  
DEPARTMENT OF ELECTRICAL ENGINEERING  
AND COMPUTER SCIENCE

3228 EECS BUILDING  
1301 BEAL AVENUE  
ANN ARBOR, MICHIGAN 48109-2122  
734 764-0500 FAX 734 647-2106  
<http://www.eecs.umich.edu/RADLAB/>

July 29, 1998

Federal Communications Commission  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

Attn: Rich Fabina (fax 301-344-2050)

Re: Relating to July 28, 1998 fax  
Reference Number: 2237  
Certification for Hyperling  
RF Wireless Bridg  
FCC ID: MYF-HYPER24CLA

Dear Rich,

The following information materials are submitted as requested by above document. I start with a copy of your fax, for item of concern identification purposes which are same as in your fax.

(1) We did the required measurements for the peak emissions in restricted bands. I apologize for not having the data vividly presented in the data tables. The results are presented in a text format Sec. 6.1., which is:

**6.1 Peak-to-Average Ratio (15.35(b))**

For the measurements presented here for emissions in restricted bands, the DUT was programmed to transmit continuous, and such was verified with spectrum analyzer set to zero-span mode. See Figure 6.1. The average measurements were made using 1 MHz RBW and 100 Hz VBW (sometimes to 300 Hz -- it goes faster). The peak measurements, were made using 1 MHz RBW and 1 MHz VBW.

When a real signal was measured from the DUT, the the worst case ratio was 12.0 dB, and when no signal was detected (a noise floor), the worst case ratio was 14.5 dB.

At the time the report was prepared, there was no room to squeeze in couple more columns in the tables. But, I got it figured out now, and will have the peak data incorporated in the net round.

Sincerely,

A handwritten signature in dark ink, appearing to read "Valdis V. Liepa".

Valdis V. Liepa  
Research Scientist

cc: HyperLink, Peter Roth



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August 5, 1998

Hyperlink Technologies Inc.  
Attn: Peter Roth; Tel: (561) 995-2256 Fax: (561) 995-2432  
Tel: (561) 995-2256  
Fax: (561) 995-2432  
1200 Clint Moore Rd., Suite 14  
Boca Raton, FL 33487

Dear Peter:

On August 3, 1998, we performed Line Conducted emission tests on the RF amplifier power supply that you provide and measured that in the worst case it meets the FCC Class B limit by 9 dB. The tests were performed using a section of the radio system that provides same interface and power supply loading as would be in a complete system. The set-up used consisted of:

- (a) Switching Power Supply (DUT)  
HyperLink, Model PSA 124  
110-220 VAC/ 12 VDC, 4.3 A  
S/N: M63103340E1
- (b) DC Power Injector  
HyperLink
- (c) 25 ft RG-9/U cable with N connectors
- (d) RF Amplifier  
HyperLink, Model: HyperAmp- HyperLink  
S/N: 705111
- (e) 50-ohm terminations at the Power Injector RF input port (radio input) and at the amplifier output (antenna port).

The measured conducted emission plots are on the next two pages.

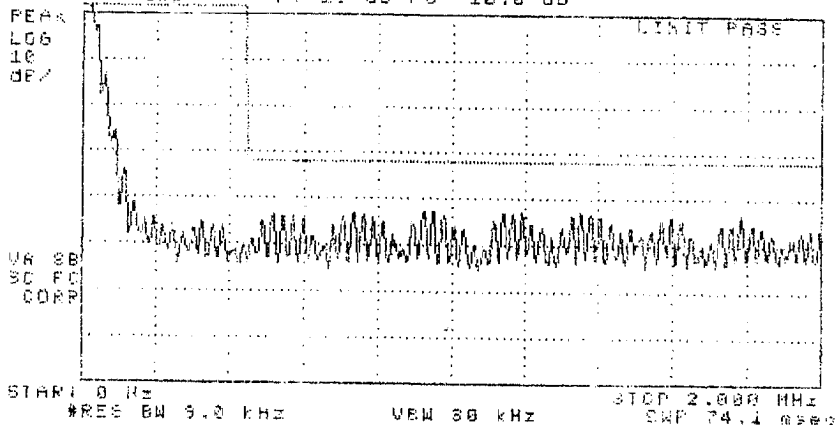
Sincerely,

A handwritten signature in black ink, appearing to read "Valdis V. Liepa".

Valdis V. Liepa  
Research Scientist

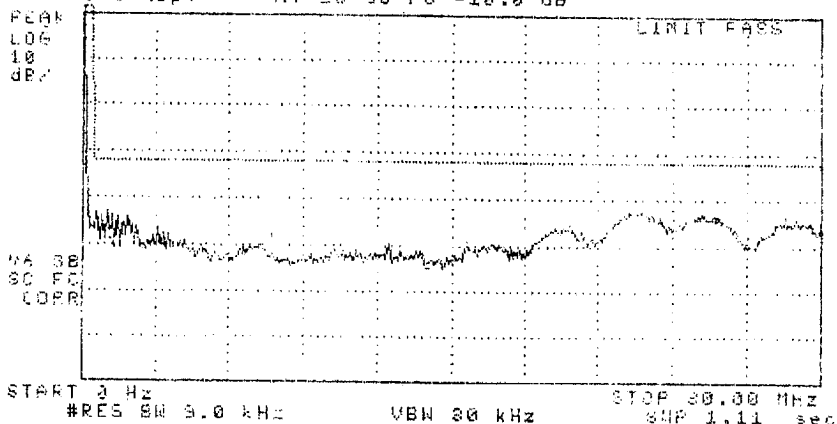
15:33:23 AUG 03, 1998

REF 80.0 dBμV AT 10 dB PG -10.0 dB

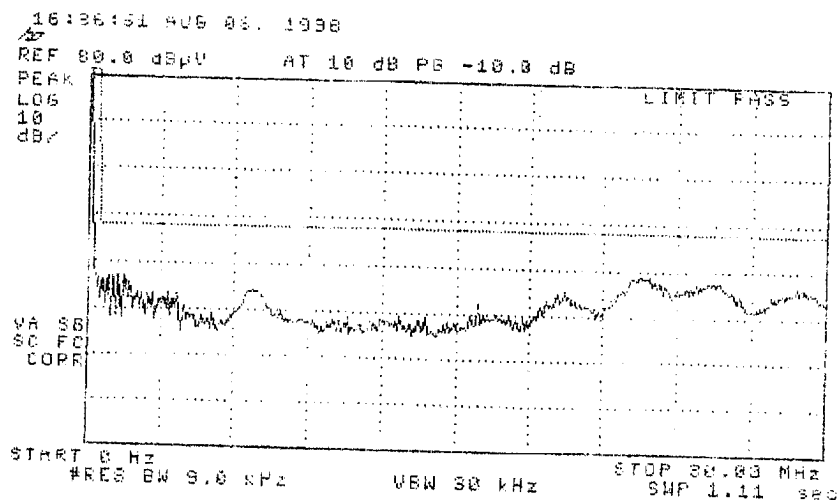
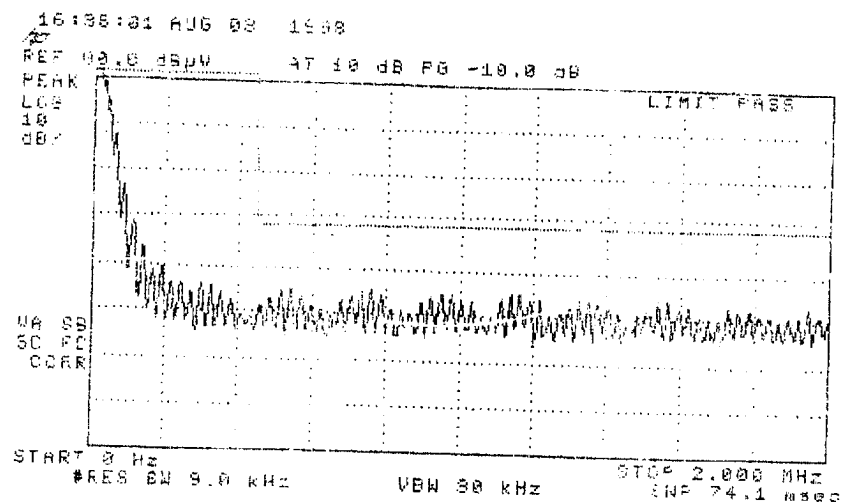


16:34:24 AUG 03, 1998

REF 80.0 dBμV AT 10 dB PG -10.0 dB



(Top) Conducted Emissions; High Side, 0-2.0 MHz  
(Bottom) Conducted Emissions; High Side, 0-30 MHz.  
(LISN 9 kHz Bandwidth Peak Detection)



(Top) Conducted Emissions; Low Side, 0-2.0 MHz.  
 (Bottom) Conducted Emissions; Low Side, 0-30 MHz.  
 (LISN 9 kHz Bandwidth Peak Detection)